

# U. S. Coast Guard





# Coast Guard Innovation Program

*Navy Warfare Development Command*

*Maritime Innovation Symposium*

*March 2012*

**RDML Lee**

**Commander**

**U.S. Coast Guard Fifth District**

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# SH60F to MH-60T Conversion Process

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**Problem:** Multiple mishaps caused readiness degradation in the aviation fleet.

**Solution:** Innovative folks at our Logistics Center determined that a retired U.S. Navy SH-60F could be converted into the Coast Guard's unique MH-60T Configuration for approximately \$15M.

**Impact:** A savings of over \$12M when compared to the OEM projection for a new aircraft.



# DEPLOYMENT OF THE DF-430

**Problem:** While there is regulatory requirement for 406 EIPRBs on commercial vessels, the Coast Guard SAR assets (aircraft & small boats) remained unequipped to receive the 406MHz homing signal.

**Solution:** At the 2006 CG Expo, an innovative civilian employee detailed the problem the Vice Commandant. Subsequently, the fielding of the 406 capable DF-430 is fast tracked for installation on all USCG aircraft ...5 years ahead of the proposed schedule; and much more broadly.

**Impact:** It has been credited with saving or assisting 212 lives while significantly reducing search time for “false” alarms.



Canister  
deployed to  
S/V California  
19 Lives  
Saved

MV Dintelborg  
Disabled by bridge fire  
off Cape Cod, MA.  
9 Lives Assisted

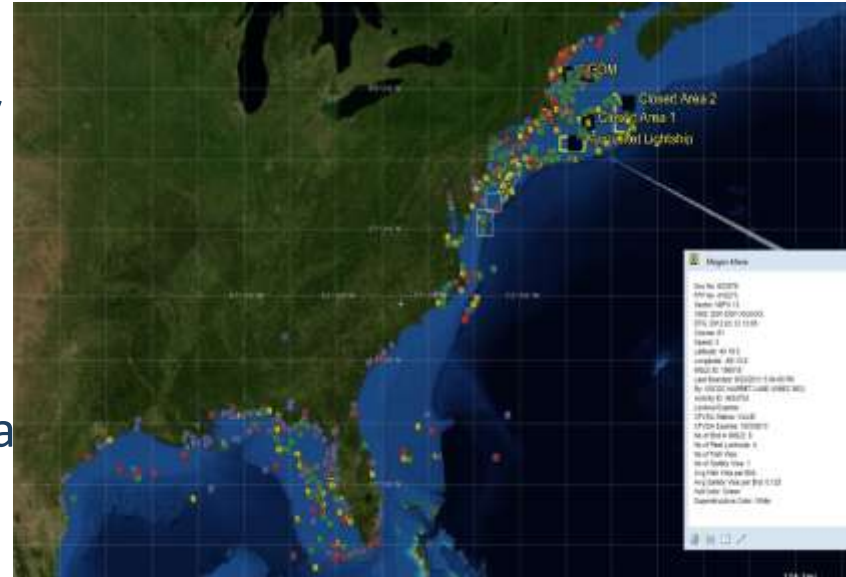




# OPTIDE – Operation Tactical Intelligence Driving Enforcement

**Problem:** Expensive offshore patrol hours were being spent inefficiently and ineffectively on our mission to combat illegal fishing and enforce fishing vessel safety requirements.

**Solution:** A young LT and patrol boat XO used disparate Coast Guard and partner agency data feeds and automated algorithms to prioritize boarding targets. He developed a program that leveraged a format easy for all Coast Guard units to receive.



**Result:** Provided a near real time COP to smaller units. 180% increase in boardings with a 191% increase in the probability of detecting a violation. 500% increase in significant violations detected by keeping the boarding effort on “high risk” vessels.

# Obstacles to Innovation

- Our Own Security Requirements
- Mid-level “Nay-Sayers”
- Lack of Awareness to Leadership (i.e. Comms)

For EXPO 2012, The US Coast Guard  
is returning to the

# **VIRGINIA BEACH CONVENTION CENTER**

October 30-  
November 1, 2012

